UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,751	07/03/2003	Srikumar Chari	50325-0782	5654

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ART UNIT	PAPER NUMBER
2155	

MAIL DATE	DELIVERY MODE
08/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
Supplemental ***Notice of Allowability***	10/613,751	CHARI ET AL.
	Examiner	Art Unit	
	SHAWKI S. ISMAIL	2155	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *correct some claim dependencies of the previous notice of allowance mailed out on 6/17/08*.

2. ☒ The allowed claim(s) is/are *1-4,6-9,12,13,15-18,21-24,27-30,32-35,37-41,43-46,48-51,54-57,59-62 and 65*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the

            International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

        Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
10613751	7/3/03	CHARI ET AL.	50325-0782

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ART UNIT	PAPER
2155	20080728

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner for Patents

This supplemental allowance is being sent to correct some problems with claim dependencies. Some claims were dependent on cancelled claims.

SUPPLEMENTAL EXAMINERS AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes and /or

additions by unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such amendment, it must be submitted no later than the

payment of the issue fee.

2.   Authorization for this examiner's amendment was given in an interview with Christopher

Tanner (Reg. No. 41,518) on May 7, 2008.

3.   The application has been amended as follows:

        Claims 1, 5, 7, 12, 14, 16, 21, 25, 27, 32, 36-38, 42-43, 47-49, 53, 54, 58, 60 and 64-66

have been amended.

        1.   (Currently amended) A method of automatically generating a configuration for a

network device, the method comprising the computer-implemented steps of:

        receiving a partial configuration for a network device, wherein the partial configuration

comprises a plurality of configuration commands, wherein each of one or more of the

configuration commands is associated with one of a plurality of user interface elements;

        parsing the partial configuration to identify the user interface elements;

        generating a local user interface page from a user based on the user interface elements;

        receiving one or more configuration parameter values via the user interface page; ~~and~~

        substituting the configuration parameter values into the partial configuration to result in

creating a complete configuration for the device;

wherein the partial configuration is at least partially customized with one or more

configuration parameter values specific to a network service provider prior to shipment of the

network device to a user;

wherein each of the user interface elements comprises a data variable name and a user

interface string value;

generating an electronic document that is displayable by an end user computer system

that is communicatively coupled to the network device,

wherein the electronic document includes the user interface string value;

causing the network device to display the electronic document using the end user

computer system; ~~and~~

associating one of the configuration parameter values with the data variable name [[.]] :

wherein each of the user interface elements further comprises a data type value; and

determining whether a data type of the one of the configuration parameter values matches

the data type value.

5.   (Cancelled).

7.   (currently amended) change "A method as recited in claim 5,…" to "A method as

recited in claim 1,…"

12.   (Currently amended) A method of automatically generating a network device

configuration, the method comprising the computer-implemented steps of:

reading a configuration template from non-volatile memory of a network device, wherein

the configuration template comprises a plurality of configuration commands, wherein each of

one or more of the configuration commands is associated with one of a plurality of user interface

elements, wherein the configuration template is stored in the memory prior to movement of the

network device from a vendor or service provider to a user;

parsing the configuration template to identify one or more user interface elements;

generating a local user interface page based on the user interface elements;

receiving one or more configuration parameter values from a user of the network device

via the user interface page; and

substituting the configuration parameter values into the configuration template in

association with the configuration commands to result in creating and storing a complete

configuration for the device;

wherein the configuration template is at least partially customized with one or more

configuration parameter values specific to a network service provider;

wherein each of the user interface elements comprises a data variable name and a user

interface string value;

generating an electronic document that is displayable by an end user computer system

that is communicatively coupled to the network device, wherein the electronic document

includes the user interface string value;

causing the network device to display the electronic document using the end user

computer system; and

associating one of the configuration parameter values with the data variable name[[.]] ;

wherein each of the user interface elements further comprises a data type value; and

determining whether a data type of the one of the configuration parameter values matches

the data type value.

14.   (Cancelled).

16.   (currently amended) change "A method as recited in claim 14,..." to "A method as recited in claim 12,..."

21.   (Currently amended) A computer-readable storage medium carrying one or more sequences of instructions for automatically generating a configuration for a network device, which instructions, when executed by one or more processors, cause the one or more processors to carry out the steps of:

receiving a partial configuration for a network device, wherein the partial configuration comprises a plurality of configuration commands, wherein each of one or more of the configuration commands is associated with one of a plurality of user interface elements;

parsing the partial configuration to identify the user interface elements;

generating a local user interface page based on the user interface elements;

receiving one or more configuration parameter values via the user interface page;

substituting the configuration parameter values into the partial configuration to result in creating a complete configuration for the device;

wherein the partial configuration is at least partially customized with one or more configuration parameter values specific to a network service provider prior to shipment of the network device to a user[[.]] ;

wherein each of the user interface elements comprises a data variable name and a user interface string value;

generating an electronic document that is displayable by an end user computer system that is communicatively coupled to the network device, wherein the electronic document

includes the user interface string value;

causing the network device to display the electronic document using the end user

computer system; ~~and~~

associating one of the configuration parameter values with the data variable name[[.]] :

wherein each of the user interface elements further comprises a data type value; and

determining whether a data type of the one of the configuration parameter values matches

the data type value.

25.   (Cancelled).

27.   (currently amended) change "A computer-readable medium as recited in claim

25,..." to "A computer-readable medium as recited in claim 21,..."

32.   (Currently amended) An apparatus for automatically generating a configuration

for a network device, comprising:

means for computing comprising a communication mechanism for communicating

information, and a processor coupled with the communication mechanism for processing

information;

means for receiving a partial configuration for a network device, wherein the partial

configuration comprises a plurality of configuration commands, wherein each of one or more of

the configuration commands is associated with one of a plurality of user interface elements;

means for parsing the partial configuration to identify the user interface elements;

means for generating a local user interface page based on the user interface elements;

means for receiving one or more configuration parameter values via the user interface

page;

means for substituting the configuration parameter values into the partial configuration to result in creating a complete configuration for the device;

wherein the partial configuration is at least partially customized with one or more configuration parameter values specific to a network service provider prior to shipment of the network device to a user;

wherein each of the user interface elements comprises a data variable name and a user interface string value;

means for generating an electronic document that is displayable by an end user computer system that is communicatively coupled to the network device, wherein the electronic document includes the user interface string value;

means for causing the network device to display the electronic document using the end user computer system; ~~and~~

means for associating one of the configuration parameter values with the data variable name.

wherein each of the user interface elements further comprises a data type value; and

means for determining whether a data type of the one of the configuration parameter values matches the data type value.

36.   (Cancelled).

37.   (currently amended) change "An apparatus as recited in claim 36,…" to "An apparatus as recited in claim 32,…"

38.   (currently amended) change "An apparatus as recited in claim 36,…" to "An apparatus as recited in claim 32,…"

42.   (Cancelled).

43.   (Currently amended) An apparatus for automatically generating a configuration

for a network device, comprising: a network interface that is coupled to the data network for

receiving one or more packet flows therefrom; a processor; one or more stored sequences of

instructions which, when executed by the processor, cause the processor to carry out the steps of:

receiving a partial configuration for a network device, wherein the partial configuration

comprises a plurality of configuration commands, wherein each of one or more of the

configuration commands is associated with one of a plurality of user interface elements;

    parsing the partial configuration to identify the user interface elements;

    generating a local user interface page based on the user interface elements;

    receiving one or more configuration parameter values via the user interface page; and

    substituting the configuration parameter values into the partial configuration to result in

creating a complete configuration for the device;

    wherein the partial configuration is at least partially customized with one or more

configuration parameter values specific to a network service provider prior to shipment of the

network device to a user;

    wherein each of the user interface elements comprises a data variable name and a user

interface string value;

    generating an electronic document that is displayable by an end user computer system

that is communicatively coupled to the network device, wherein the electronic document

includes the user interface string value;

    causing the network device to display the electronic document using the end user

computer system; ~~and~~

     associating one of the configuration parameter values with the data variable name;

     <u>wherein each of the user interface elements further comprises a data type value; and</u>

     <u>determining whether a data type of the one of the configuration parameter values matches</u>

<u>the data type value.</u>

     47.   (Cancelled).

     48.   (currently amended) change "An apparatus as recited in claim 42,…" to "An

apparatus as recited in claim 43,…"

     49.   (currently amended) change "An apparatus as recited in claim 47,…" to "An

apparatus as recited in claim 43,…"

     53.   (Cancelled).

     54.   (Currently amended) A method of enabling a network service provider to

customize a configuration of a network device, the method comprising the computer-

implemented steps of:

     creating and storing a partial configuration for a network device within the network

device, wherein the partial configuration comprises a plurality of configuration commands,

wherein each of one or more of the configuration commands is associated with one of a plurality

of user interface elements;

     providing the network device with the partial configuration to an end user, wherein setup

of the network device causes the network device to perform the steps of parsing the partial

configuration to identify the user interface elements; generating a local user interface page based

on the user interface elements; receiving one or more configuration parameter values via the user

interface page; and substituting the configuration parameter values into the partial configuration

to result in creating a complete configuration for the device;

wherein the partial configuration is at least partially customized with one or more

configuration parameter values specific to the network service provider before providing the

device to the end user;

wherein each of the user interface elements comprises a data variable name and a user

interface string value;

generating an electronic document that is displayable by an end user computer system

that is communicatively coupled to the network device, wherein the electronic document

includes the user interface string value;

causing the network device to display the electronic document using the end user

computer system; ~~and~~

associating one of the configuration parameter values with the data variable name[[.]] :

<u>wherein each of the user interface elements further comprises a data type value; and</u>

<u>determining whether a data type of the one of the configuration parameter values matches</u>

<u>the data type value.</u>

58.   (Cancelled).

60.   (currently amended) change "A method as recited in claim 58,..." to "An

apparatus as recited in claim 54,..."

64.   (Cancelled).

65.   (Currently amended) A method of enabling a network service provider to

customize a configuration of a network device, the method comprising the computer-

implemented steps of:

creating a partial configuration for a network device, wherein the partial configuration

comprises a plurality of configuration commands, wherein each of one or more of the

configuration commands is associated with one of a plurality of user interface elements;

storing the partial configuration in the network device;

providing the network device with the partial configuration to an end user, wherein setup

of the network device causes the network device to perform the steps of parsing the partial

configuration to identify the user interface elements; generating a local user interface page based

on the user interface elements; receiving one or more configuration parameter values via the user

interface page; and substituting the configuration parameter values into the partial configuration

to result in creating a complete configuration for the device;

receiving a configuration request from the device, based on the device operating

according to the complete configuration;

wherein the partial configuration is at least partially customized with one or more

configuration parameter values specific to the network service provider before providing the

device to the end user;

wherein each of the user interface elements comprises a data variable name and a user

interface string value;

generating an electronic document that is displayable by an end user computer system

that is communicatively coupled to the network device, wherein the electronic document

includes the user interface string value;

causing the network device to display the electronic document using the end user

computer system; ~~and~~

     associating one of the configuration parameter values with the data variable name <u>;</u>

     <u>wherein each of the user interface elements further comprises a data type value; and</u>

     <u>determining whether a data type of the one of the configuration parameter values matches</u>

<u>the data type value.</u>

     66.   (Cancelled).

REASONS FOR ALLOWANCE

4.   The following is an Examiner's Statement of Reasons for Allowance:

Claims 1-4, 6-9, 12-13, 15-18, 21-24, 27-30, 32-35, 37-41, 43-46, 48-51, 54-57, 59-62 and 65 are

allowable over the prior art of record.

The examiner has found that the prior art of record does not teach or suggest or render

obvious a method, apparatus and computer readable storage medium for automatically

generating a configuration for a network device and for minimizing the installation complexity

of network devices prior to installation by allowing network service providers to at least partially

pre- configure (i.e., customize) the network devices prior to distribution and allowing the

receiving users to locally complete the device's configurations once connected to the service

provider's network as set forth in the specification and recited in the independent claims.

5.   Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submission should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shawki S Ismail whose telephone number is 571-272-3985. The

examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh

Najjar can be reached on 571-272-4006. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Shawki S Ismail/
Examiner, Art Unit 2155
July 28, 2008

/saleh najjar/

Supervisory Patent Examiner, Art Unit 2155